A Service Perspective on Jointness and Interoperability

SAE Panel
2004 DAU Alumni Association Symposium

The Honorable Claude M. Bolton, Jr.
Assistant Secretary of the Army (Acquisition, Logistics and Technology) and
Army Acquisition Executive

Trivia

What Legislative Act Formally Established The Joint Chiefs of Staff?

Trivia Answer

The National Security Act of 1947

Joint Lightweight 155mm Howitzer M777 & M777A1

M777 R&D USMC Funded

- 10,000 Lbs. or Less with TAD - Deployable and Mobile*
- Emplace in 3 Min*
- Displace in 2 –3 Min*
- Max Range 30km with Rocket Assist
- Reliability 800 to 900 Rds Between Systems Abort

- Key Performance Parameters

M777A1 Towed Artillery Digitization (TAD) R&D Army Funded

- Digital Indirect Fire Control
- Inertial Navigation with GPS Backup
- 1-Mil Pointing Accuracy

- **Single Joint PM (USMC O6)**
  - Common Requirements
  - JPMO Staffed with USMC & Army Employees
  - JPM Under Army PEO GCS
- **International Participation**
  - R&D MOA with Italy and UK
  - Production MOA with UK

rrently Producing First 94 LRIP M77
for USMC Joint Production
of M777A1 Begins in FY05

Joint Program Executive Office for Chemical and Biological Defens

Joint Chem/ Bio Detection and Identification Systems

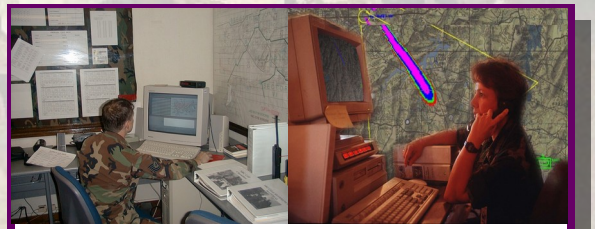
Joint Decontamination Systems

Joint Collective Protection Systems

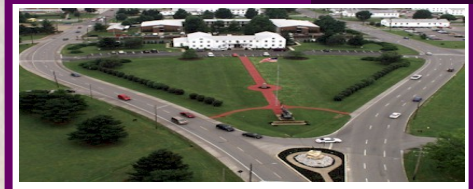
Joint Medical Systems

Vaccines, Devices, Pharmaceuticals

Joint Individual Protection Masks, Suits, Gloves, Boots



Joint Information Systems



Joint Installation and Force Protection

PM Soldier Equipment

Joint Programs

DOD
Joint Firefighter's Integrated Response Ensemble (JFIRE)/FIS-C
Joint Service Lightweight Integrated Suite Technology (JSLIST)
Joint Protective Aircrew Ensemble (JPACE)

Joint Interest
Thermal Weapon Sight
PVS-7 Night Optical Device
PVS-14 Night Optical Device
Sniper Night Sight
Viper Laser Target Locator
Mark VII Laser target Locator

Interceptor
Modular Lightweight Load-carrying Equipment
Modular Sleeping Bag System
Improved Rainsuit
Light Weight Helmet
Anti-Microbial Socks/Improved Combat Sock
Improved Combat Shelter/Combat Tent
Improved Engineer Glove/Protective Glove System
Cold Weather Canteen/Improved Canteen
PAQ 4 IR Laser Pointer
PEQ 2 IR Laser Pointer/Illuminator

Survival Egress Air (SEA) MK2 Device
Low Profile Flotation Collar
Light-weight Video Reconnaissance System

PM Soldier Weapons
Joint Programs

M203 Grenade Launcher
M9 Pistol
M240 Family (7.62mm Machine Gun)
M249 (5.56mm Machine Gun)
Mk19 40mm Grenade Machine Gun
M2 .50 cal Machine Gun

M4 Carbine
M16A2 Rifle
M203A2 Grenade Launcher
M145 Machine Gun Optic

M4A1 Carbine

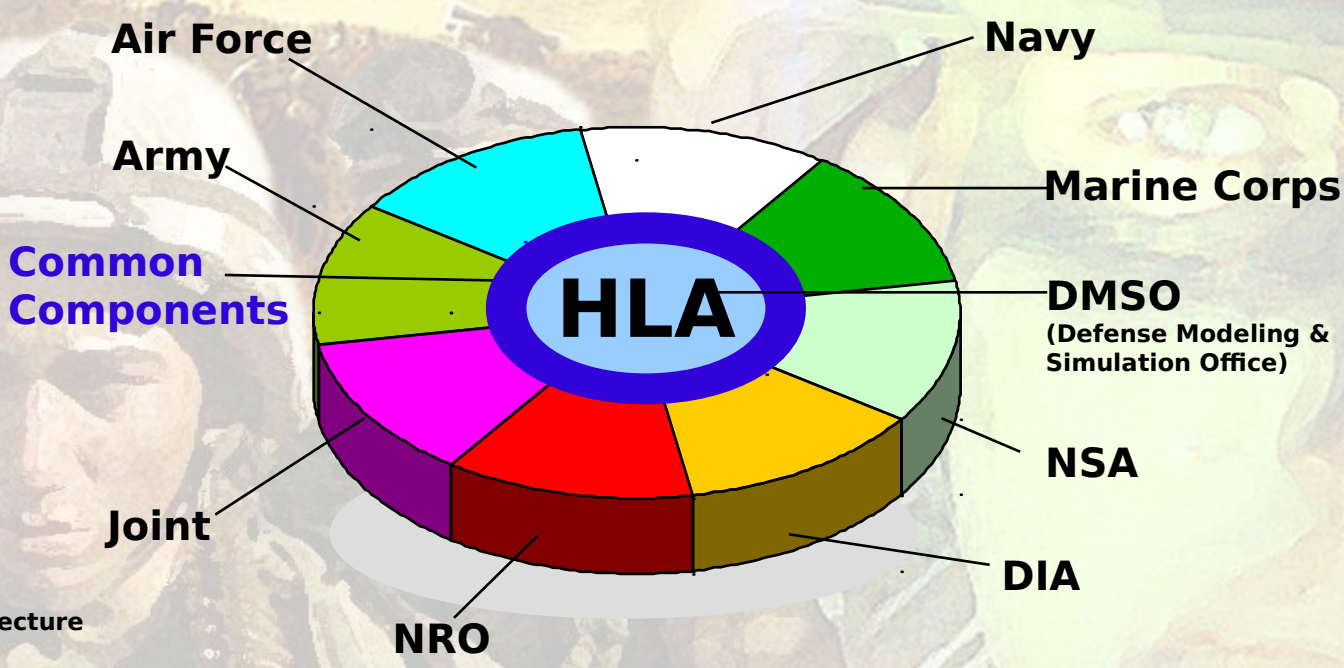
M16A3 Rifle Carbine

M16A4 Rifle Carbine

Air Warrior HGU-56/P Helmet

JSIMS Alliance

A Joint, interoperable simulation



HLA-High Level Architecture

A collaborative effort of **nine** Alliance partners

- **DoD's "flagship" modeling and simulation program for the warfighters**
  - **Replace outdated Joint and Service legacy systems**
  - **Real-world C4I systems … using common components**
  - **Distributed training … mission planning … mission rehearsal**

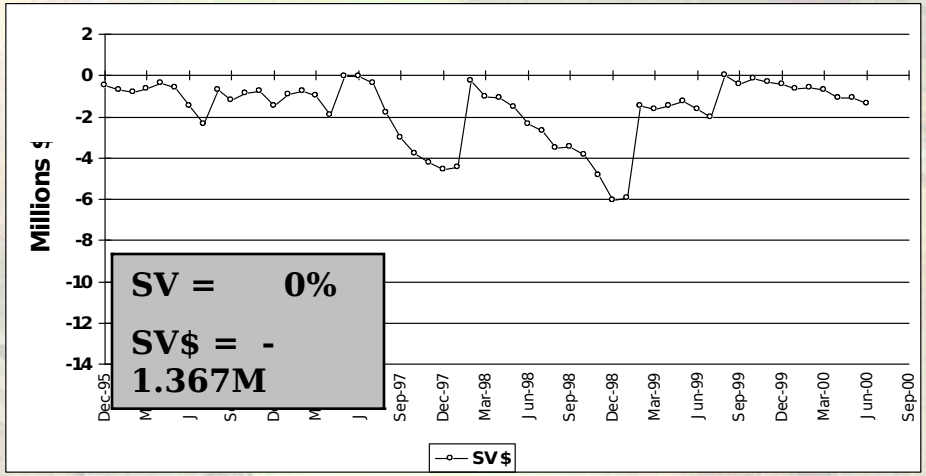
ATIRCM/Common Missile Warning System (ACAT IC--D) Joint Program (Army Lead)

ey Program Parameters (rebaselined Sep 99)

	Threshold	Actual	Variance
KPPs			
Prob of Declar*	100%	106%	+6%
False Alarm*	100%	80%	-20%
Cost			
Unit cost (AUPC)	$200K	$367K	-$167K (-84%)
Cost (RDT&E)	$594M	$631M	-$37M (-6%)
Schedule			
DT Start/End	Jan 01/Feb 01	Nov 00/Dec 00	-2 mo/-2 mo
OT Start/End	May 02/Jul 02	Mar 02/May 02	-2 mo/-2 mo
MS III (RW)	Sep 03	Jul 03	-2 mo

* KPPs normalized to 100%

Schedule Variance



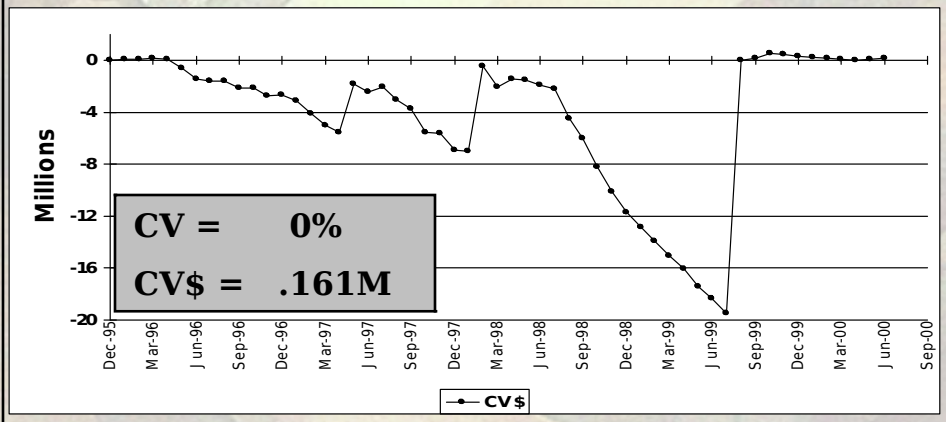
Key Issues/Risks

Awaiting official program termination position by USD(AT&L)

- Memorandum from OSD currently being drafted to SAF/AQ acknowledging AF concerns but supporting Army position--will require AF funding support for CMWS EMD from FY01-03 in the amounts requested by Army
- FY 02 AF POM position reflects zero-funding for CMWS
- Appropriations Conference Committee has zeroed AF CMWS funding
- Army revising schedule to reflect Army-only program
- APB and Program Office Estimate to be revised upon official OSD decision
- Develop MOU with Army to ensure smooth transition to Army-only program

CMWS System Performance Test completed Jul 00--no showstoppers

Cost Variance



Joint Tactical Radio System

Current Systems
(25-30 Families)
(750, 000 Radios)

- Navigation
- Positioning
- Location
- Identification
- Air to Ground
- Air to Air
- Ground to Ground
- SATCOM

AN/PSQ-6A EPLRS

AN/ARC-210

AN/WCS-3 UHF SATCOM/LOS

AN/ARC-201A SINCGARS

ANPRC-119 SINCGARS

AN/PSC-5

Common Open Standards Architecture & Technology Base

Legacy Waveforms
Commercial Waveforms
New Military Waveforms

Joint Solution
(1 Family)

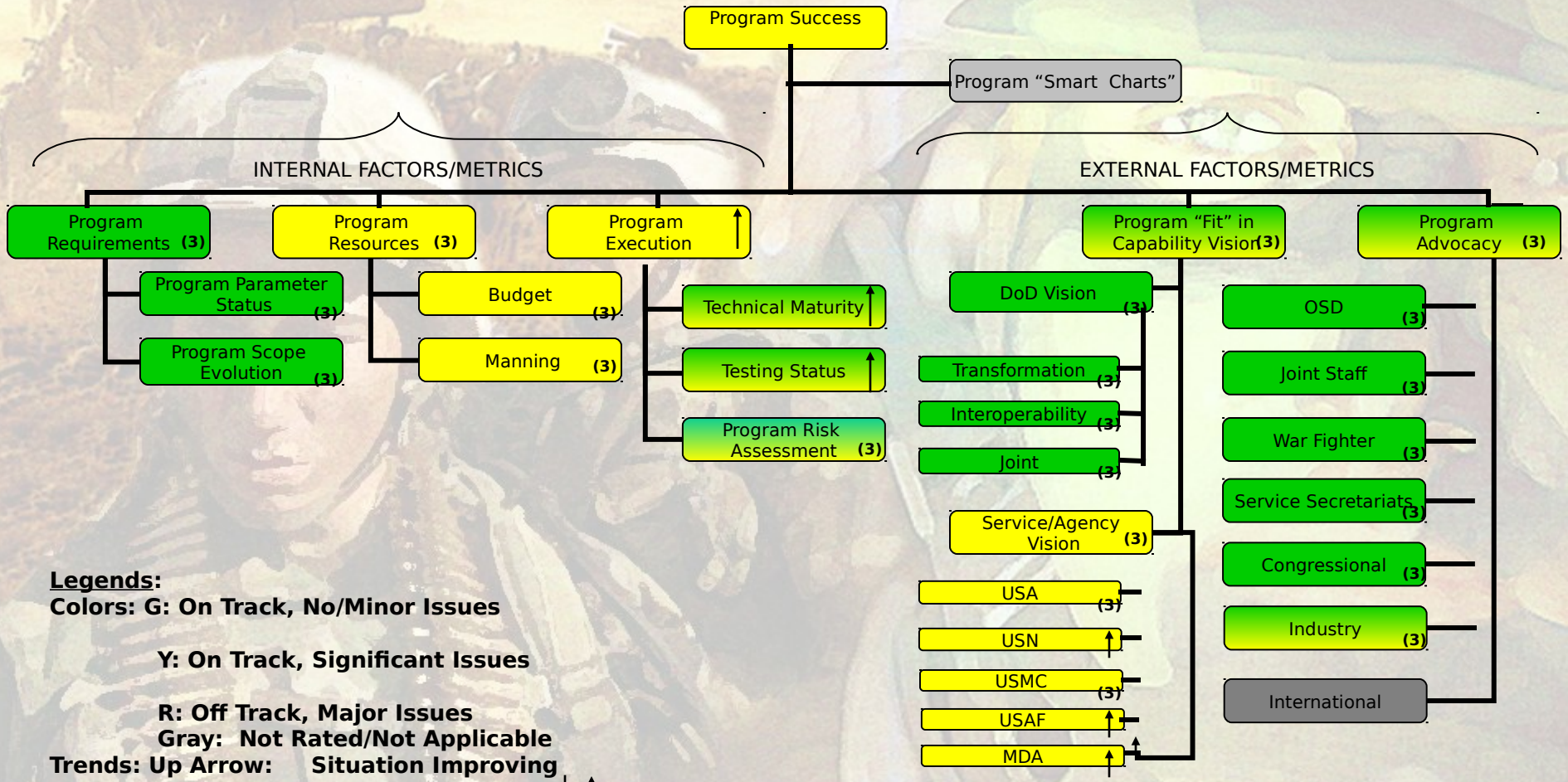
OPERATIONAL DOMAINS

- Space
- Airborne
- Maritime/ Fixed Station
- Ground

replaces

TRS – A Family of Common Radios and Waveforms Built Around a Standard Open Architecture

JSIAP Program Success Probability Summary



Legends:
Colors: G: On Track, No/Minor Issues

Y: On Track, Significant Issues

R: Off Track, Major Issues
Gray: Not Rated/Not Applicable
Trends: Up Arrow: Situation Improving
(number): Situation Stable (for # Reporting Periods)
Down Arrow: Situation Deteriorating

Program Life Cycle Phase: SDD

YOU